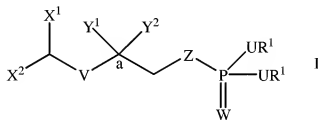


LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Previously Presented) A compound having the formula I



wherein

X¹, X², Y¹, and Y² are, independently, hydrogen, fluorine, a hydroxyl group, a branched or straight chain C₁ to C₂₅ alkyl group, OR², OC(O)R³, or NC(O)R³; each U is, independently, oxygen, sulfur, or NR¹;

V is not present or when V is present, V comprises oxygen or sulfur;

W is oxygen or sulfur;

Z is oxygen, sulfur, NR¹, CHF, or CHOR²;

each R¹ is, independently, hydrogen, a branched or straight chain C₁ to C₂₅ alkyl group, or a cationic counterion;

R² is hydrogen, a branched or straight chain C₁ to C₂₅ alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group or a protecting group;

R³ is a branched or straight chain C₁ to C₂₅ alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group, or an oleate group,

or a pharmaceutically acceptable salt or ester thereof,

wherein when Y¹ and Y² are different groups, the stereochemistry at carbon a is greater than 95% of one enantiomer with respect to the other enantiomer, and

wherein the compound having the formula I is not 1-acyl-*sn*-glycerol 3-phosphate and 2-acyl-*sn*-glycerol 3-phosphate, and

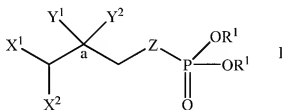
wherein when V is not present, W is oxygen, X^1 and Y^1 are hydrogen, and X^2 is hydroxyl, then Y^2 is not hydroxyl.

2. (Previously Presented) The compound of claim 1, wherein each U and W is oxygen and V is not present.
3. (Original) The compound of claim 2, wherein Z is oxygen, X^1 comprises hydrogen, and X^2 is fluorine.
4. (Original) The compound of claim 3, wherein Y^1 is hydrogen, Y^2 comprises $OC(O)R^3$, wherein R^3 is a branched or straight chain C_1 to C_{25} alkyl group, and R^1 is hydrogen.
5. (Canceled)
6. (Original) The compound of claim 2, wherein Z is oxygen, Y^1 is hydrogen, and Y^2 is fluorine.
7. (Original) The compound of claim 6, wherein X^1 is hydrogen, X^2 comprises $OC(O)R^3$, wherein R^3 is a branched or straight chain C_1 to C_{25} alkyl group, and each R^1 is hydrogen.
8. (Previously Presented) The compound of claim 2, wherein Z comprises CHF, Y^1 is hydrogen, and Y^2 is a hydroxyl group.
9. (Original) The compound of claim 8, wherein X^1 is hydrogen, X^2 is $OC(O)R^3$, wherein R^3 is a branched or straight chain C_1 to C_{25} alkyl group, and each R^1 is hydrogen.
10. (Canceled)
11. (Original) The compound of claim 8, wherein X^1 is hydrogen, X^2 is $OC(O)R^3$, wherein R^3 is a branched or straight chain C_1 to C_{25} alkyl group, and each R^1 is ethyl.
12. (Canceled)
13. (Original) The compound of claim 2, wherein Z is CHF, Y^1 is hydrogen, and Y^2 is an alkyl group.
14. (Original) The compound of claim 13, wherein X^1 is hydrogen, X^2 is a silyl group, a hydroxyl group, or $OC(O)R^3$, wherein R^3 is a branched or straight chain C_1 to C_{25} alkyl group, and each R^1 is ethyl or each R^1 is hydrogen.
15. (Original) The compound of claim 2, wherein Z is CHF, Y^1 is hydrogen, and Y^2 is an $OC(O)R^3$, wherein R^3 is a branched or straight chain C_1 to C_{25} alkyl group.
16. (Canceled)

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17. (Original) The compound of claim 89, wherein Z is CF₂.
18. (Original) The compound of claim 17, wherein Y¹ is hydrogen, Y² comprises OC(O)R³, wherein R³ is a branched or straight chain C₁ to C₂₅ alkyl group, and each R¹ is an ethyl group or a sodium ion.
19. (Original) The compound of claim 18, wherein X¹ is hydrogen and X² is OH or OC(O)R³, wherein R³ is a branched or straight chain C₁ to C₂₅ alkyl group.
20. (Original) The compound of claim 17, wherein X¹ is hydrogen, X² is OC(O)R³, wherein R³ is a branched or straight chain C₁ to C₂₅ alkyl group, and each R¹ is an ethyl group or a sodium ion.
21. (Original) The compound of claim 20, wherein Y¹ is hydrogen and Y² is OH or OC(O)R³, wherein R³ is a branched or straight chain C₁ to C₂₅ alkyl group.
- 22-72 (Cancelled)
73. (Withdrawn) A method for improving wound healing in a subject in need of such improvement, comprising contacting the wound of a mammal with a compound of claim 1.
74. (Withdrawn) A method for treating or preventing in a subject a disease comprising administering to the subject a compound of claim 1.
75. (Withdrawn) The method of claim 74, wherein the disease comprises cancer or diabetes.
76. (Canceled)
77. (Withdrawn) A method for reducing inflammation or an allergic response in a subject comprising administering to the subject a compound of claim 1.
78. (Withdrawn) A method for increasing or altering cardiovascular function in a subject comprising administering to the subject a compound of claim 1.
79. (Withdrawn) A method for maintaining or terminating embryonic development in a subject comprising administering to the subject a compound of claim 1.
80. (Withdrawn) A method for eliciting or inhibiting platelet aggregation in a subject comprising administering to the subject a compound of claim 1.
81. (Withdrawn) A method for increasing or inhibiting cell growth and proliferation in a culture comprising contacting the cells in the culture with a compound of claim 1.

82. (Withdrawn) A method of treating or preventing a disease in a subject comprising administering a compound of claim 1 thereof as a PPAR γ agonist.
83. (Withdrawn) A method of treating or preventing a disease in a subject comprising administering a compound of claim 1 to inhibit a lipid phosphatase, lipid kinase, or phospholipase enzyme.
84. (Withdrawn) The use of a compound of claim 1 for targeting the discovery of a drug.
85. (Withdrawn) A method for growing or proliferating cells in a culture comprising administering to the cells in the culture a compound of claim 1.
86. (Withdrawn) A method for determining the activity of lysophosphatidic acid or phosphatidic acid, comprising the steps of:
- a) measuring the activity of a compound of claim 1; and
 - b) measuring the same activity of lysophosphatidic acid or phosphatidic acid.
87. (Withdrawn) The method of claim 86, wherein the method comprises identifying agonists or antagonists of lysophosphatidic acid binding to or activating lysophosphatidic acid receptors of the edg class in a cell.
88. (Withdrawn) The method of claim 86, wherein the method comprises identifying agonists or antagonists of lysophosphatidic acid binding to or activating lysophosphatidic acid receptors of the non-edg class in a cell.
89. (Previously Presented) A compound having the formula I



wherein

X¹, X², Y¹, and Y² are, independently, hydrogen, fluorine, a hydroxyl group, OR², OC(O)R³, or NC(O)R³;

Z is CF₂;

each R¹ is, independently, hydrogen, a branched or straight chain C₁ to C₂₅ alkyl group, or a cationic counterion;

R² is hydrogen, a branched or straight chain C₁ to C₂₅ alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group or a protecting group;

R³ is a branched or straight chain C₁ to C₂₅ alkyl group, a cycloalkyl group, a heterocycloalkyl group, an aryl group, a heteroaryl group,

wherein when Y¹ and Y² are different groups, the stereochemistry at carbon a is either R or S.

90. (Withdrawn) A method for improving wound healing in a subject in need of such improvement, comprising contacting the wound of a mammal with a compound of claim 89.
91. (Withdrawn) A method for treating or preventing in a subject a disease comprising administering to the subject a compound of claim 89.
92. (Withdrawn) The method of claim 91, wherein the disease comprises cancer or diabetes.
93. (Withdrawn) A method for reducing inflammation or an allergic response in a subject comprising administering to the subject a compound of claim 89.
94. (Withdrawn) A method for increasing or altering cardiovascular function in a subject comprising administering to the subject a compound of claim 89.
95. (Withdrawn) A method for maintaining or terminating embryonic development in a subject comprising administering to the subject a compound of claim 89.
96. (Withdrawn) A method for eliciting or inhibiting platelet aggregation in a subject comprising administering to the subject a compound of claim 89.
97. (Withdrawn) A method for increasing or inhibiting cell growth and proliferation in a culture comprising contacting the cells in the culture with a compound of claim 89.
98. (Withdrawn) A method of treating or preventing a disease in a subject comprising administering a compound of claim 89 thereof as a PPAR γ agonist.
99. (Withdrawn) A method of treating or preventing a disease in a subject comprising administering a compound of claim 89 to inhibit a lipid phosphatase, lipid kinase, or phospholipase enzyme.
100. (Withdrawn) The use of a compound of claim 89 for targeting the discovery of a drug.

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- 101. (Withdrawn) A method for growing or proliferating cells in a culture comprising administering to the cells in the culture a compound of claim 89.
- 102. (Withdrawn) A method for determining the activity of lysophosphatidic acid or phosphatidic acid, comprising the steps of:
 - a) measuring the activity of a compound of claim 89; and
 - c) measuring the same activity of lysophosphatidic acid or phosphatidic acid.
- 103. (Withdrawn) The method of claim 102, wherein the method comprises identifying agonists or antagonists of lysophosphatidic acid binding to or activating lysophosphatidic acid receptors of the edg class in a cell.
- 104. (Withdrawn) The method of claim 102, wherein the method comprises identifying agonists or antagonists of lysophosphatidic acid binding to or activating lysophosphatidic acid receptors of the non-edg class in a cell.